Creative Enzymes®

Native Propionibacterium freudenreichii (shermanii) Fructose-6-phosphate Kinase, Pyrophosphate-dependent

Cat. No. NATE-0253

Lot. No. (See product label)

Introduction

Description Fructose-1,6-bisphosphatase (FBP) is an important enzyme in glucose metabolism. It catalyzes the hydrolysis of fructose-1,6-bisphosphate to fructose-6-phosphate and inorganic phosphate. Fructose-6-phosphate kinase converts fructose-6-phosphate into fructose 1,6-bisphophate in the rate limiting step of the glycolysis cycle.

Applications FBP was used to study the kinetic mechanism of pyrophosphate-dependent phosphofructokinase from Propionibacterium freudenreichii.

Synonyms EC 2.7.1.90; 6-phosphofructokinase (pyrophosphate); pyrophosphate-fructose 6-phosphate 1-phosphotransferase; inorganic pyrophosphate-dependent phosphofructokinase; inorganic pyrophosphate-phosphofructokinase; pyrophosphate-dependent phosphofructo-1-kinase; pyrophosphate-fructose 6-phosphate phosphotransferase; 55326-40-4

Product Information

Source Propionibacterium freudenreichii (shermanii)

Form lyophilized powder; Contains imidazole salts and stabilizer

EC Number EC 2.7.1.90

CAS No. 55326-40-4

Activity 4.0-8.0 units/mg protein

Unit Definition One unit will convert 1.0 µmole of pyrophosphate and fructose 6-phosphate to fructose 1,6-diphosphate and inorganic phosphate per min at pH 7.4 at 30°C.

Storage and Shipping Information

Storage −20°C